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APPLICATION FOR U.S. PATENT
TRANSMITTAL FORM

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OF PATENTS
Washington, D.C. 20231

Attorney Docket No.:
090928.A008

Sir:

Transmitted herewith for filing is the patent application of:

Inventor: Michael C. Dinsdale

For: System and Method for Securing a Medical Cable

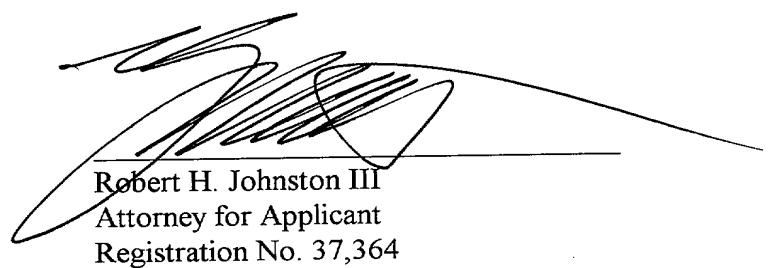
Enclosed are: 3 Sheets of Informal Drawings

FEE CALCULATION					FEE
	Number		Number Extra	Rate	Basic Fee \$ 385.00
Total Claims:	21	-20 =	1	X \$11 =	\$ 11.00
Independent Claims	4	- 3 =	1	X \$40 =	\$ 40.00
TOTAL FILING FEE =					\$ 436.00

Enclosed is a check in the amount of \$ 436.00. Please charge any additional fees or credit any overpayment to Deposit Account No. 02-0384 of BAKER & BOTTS, L.L.P. A duplicate copy of this sheet is enclosed.

5-1-97

Date


Robert H. Johnston III
Attorney for Applicant
Registration No. 37,364

Applicant or Patentee.
Serial or Patent No
Filed or Issued.
Title

MICHAEL C. DINSDALE

Attorneys' Docket
090928.A008

BATTERY COMPARTMENT AND METHOD

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) & 1.27(c)) -- SMALL BUSINESS CONCERN

I hereby declare that I am an official of the small business concern empowered to act on behalf of the concern identified below.

Name of Small Business Concern: **AMEI TECHNOLOGIES INC.**
Address of Small Business Concern: 1105 North Market Street
Wilmington DE 19899

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled **BATTERY COMPARTMENT AND METHOD** by inventor **MICHAEL C. DINSDALE**, described in the specification attached herewith.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e):

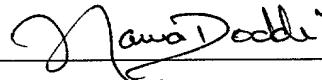
NONE

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or my maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: **Nama Doddi, Ph.D.**
Title of Person if other than owner: **President**
Address of Person Signing: **250 E. Arapaho Road**
Richardson, Texas 75081

Signature:



Date:

4/29/97

BATTERY COMPARTMENT AND METHOD

RELATED APPLICATIONS

This application claims the benefit of U.S. Provisional Patent Application Serial No. 60/040,291, filed February 12, 1997.

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TECHNICAL FIELD OF THE INVENTION

The invention is related to batteries and more particularly to battery compartments.

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BACKGROUND OF THE INVENTION

Electronic devices such as electronic games, calculators, radios, and many other devices both simplify life as well as make it more enjoyable. Many electronic devices frequently require a self-contained power source in the form of a battery or a number of batteries. The battery or batteries will typically require replacement from time to time.

For some, replacement of batteries may reduce the enjoyment provided by these electronic devices. In some conventional electronic devices, it may be difficult to access the region storing the batteries needing replacement, particularly for persons suffering from afflictions such as arthritis. In addition, replacing the batteries such that the poles of each battery are properly aligned may be difficult, particularly for small children or individuals with poor eyesight who may have trouble reading any visual indications of polarity. In addition, some people may not be familiar with polarity indications and may have trouble determining the proper orientation of the batteries.

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SUMMARY OF THE INVENTION

Therefore, a need has arisen for an apparatus that addresses the deficiencies and disadvantages of the prior art. In accordance with the present invention, a battery compartment and method for manufacturing a battery compartment are provided that address disadvantages and problems associated with previously developed battery compartments and manufacturing techniques.

According to one aspect of the invention, a battery contact and holding apparatus includes a door and a battery compartment associated with the door. The door selectively provides access to the interior of the battery compartment. The apparatus also includes a plurality of contacts for electrically coupling to a battery in the battery compartment and a post locator associated with the battery compartment for aligning one or more posts of a battery with one or more of the plurality of contacts and for disallowing the door to close off the interior of the battery compartment if a battery is not properly placed.

According to another aspect of the invention, a method of manufacturing a battery contact and holding apparatus comprises forming a battery compartment having an interior and at least one post locator and providing a plurality of contacts for electrically coupling a battery in the battery compartment. The method also includes forming a door associated with the battery compartment and pivotally coupling the door to the battery compartment. The method further includes forming the at least one post locator with a size and configuration operable to align at least one post of a battery with the plurality of contacts and to disallow the door to close off the interior of the battery compartment if a battery is not properly placed.

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The invention provides several technical advantages. For example, the invention provides a battery contact and holding apparatus that facilitates access to a battery for replacement. In addition, a battery contact and holding apparatus according to the teachings of the invention facilitates replacement of batteries by informing the user when the batteries are not properly aligned. Thus, the invention allows for easier access and replacement of batteries in electronic devices.

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BRIEF DESCRIPTION OF THE DRAWINGS

A more complete understanding of the invention and its advantages will be apparent from the detailed description taken in conjunction with the accompanying drawings in which:

FIGURE 1 is a perspective view of a battery holding and contact apparatus;

FIGURE 2 is a perspective view of the apparatus of FIGURE 1 with a door in an open position showing orientation of a battery for insertion therein;

FIGURE 3 is a perspective view of the door used as part of the apparatus of FIGURE 1;

FIGURE 4 is another perspective view of the door used with the apparatus of FIGURE 1;

FIGURE 5 is a perspective view of a battery compartment for forming part of the battery holding apparatus of FIGURE 1;

FIGURE 6 is another perspective view of the battery compartment used as part of the apparatus of FIGURE 1;

FIGURE 7 is a cross-sectional view of the battery holding and contact apparatus of FIGURE 1 showing additional details of the operation of the door used as part of the apparatus;

FIGURE 8 is a transverse cross-sectional view of the battery holding and contact apparatus shown in FIGURE 1, showing an alternative post locator.

FIGURE 9 is a perspective view of a door used as part of another embodiment of a battery holding and contact apparatus; and

FIGURE 10 is a cross-sectional view of the door in FIGURE 9, taken along line 10-10 with a battery compartment added.

DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiments of the present invention and its advantages are best understood by referring to FIGURES 1 through 10 of the drawings, like numerals being used for like and corresponding parts of the various drawings.

The present invention involves a battery compartment with a door for holding a battery and providing electrical contact to a device. Any number of battery sizes and types may be used with the present invention. For illustrative purposes, FIGURES 1 through 8 present a battery holding and contact apparatus 10 sized and configured for a standard 9 volt battery, and FIGURES 9 and 10 present an alternative embodiment of a battery holding and contact apparatus 200, sized and configured to accommodate standard AA batteries.

FIGURE 1 is a perspective view of a battery holding and contact apparatus 10 according to the teachings of the invention. Battery holding and contact apparatus 10 includes a door 12 and a battery compartment 14. Door 12 is designed to provide selective access to an interior compartment 16 (FIGURE 5) of battery compartment 14.

FIGURES 3 and 4 are perspective views of door 12, showing additional details of the door. As best shown by FIGURES 3 and 4, door 12 has a cover 18, a first side wall 20, a second side wall 22, and a third side wall 24. Cover 18 and side walls 20, 22, and 24 form a battery receiving cavity 25 illustrated in FIGURE 4. Cover 18 and side walls 20, 22, and 24 guide a battery during placement into battery receiving cavity 25. Cover 18 may extend in length a greater distance than side walls 20, 22, and 24.

As best shown in FIGURE 3, first side wall 20 may be formed with an angular guide edge 26 and an angled surface

or edge 28. Similarly, second side wall 22 may be formed with an angular guide edge 30 shown in FIGURE 3. Angular guide edge 30 may be formed as part of an elongated latching tab 32. Elongated latching tab 32 may be formed by cutting or removing material to form a notch 35 in second side wall 22.

Elongated latching tab 32 also may be formed with an enlarged portion 33. Second side wall 22 may also have an angled surface or edge 34. Elongated latching tab 32 may be one embodiment of a latching mechanism 36 used to hold door 12 closed with respect to battery compartment 14. A number of other suitable techniques may be used for latching mechanism 36, such as a screw or other fastener. As is described further below, a notch 38 may be formed on third side wall 24 to facilitate temporary movement of first side wall 20 and second side wall 22 towards each other to allow door 12 to be installed into battery compartment 14 during assembly. Third side wall 24 may extend slightly beyond angular guide edges 26 and 30 to form stops 40 and 42.

Cover 18 may have an interior surface 54. Extending from a portion of interior surface 54 proximate a second end 46 is a post locator 56. For the embodiment shown, post locator 56 has a first cutout 58 and a second cutout 60. First cutout 58 is sized to receive a positive contact post 62 (FIGURE 2) of a nine volt battery 64. Similarly, second cutout 60 is sized to receive a negative contact post 66 of battery 64.

Post locator 56 may take other shapes as well; for example, as shown in FIGURE 8, it may be a simple ledge 356 sized and located so that the larger diameter of two contact posts 366 and 362 of a nine volt battery 364, which

is negative contact post 366, will contact ledge 356 if battery 364 is improperly placed in the compartment.

As shown in FIGURE 4, cover 18 has a first end 44 and second end 46. Proximate second end 46 a hinge lip 48 may be formed. Hinge lip 48 may extend substantially the distance of a first edge 50 of cover 18. Hinge lip 48 may be a slightly rounded extension for mating with a hinge edge 52 (FIGURE 5) as explained further below.

FIGURE 2 is a perspective view of battery holding and contact apparatus 10 with door 12 in an open position, showing orientation of battery 64 for insertion therein. FIGURES 5 and 6 are perspective views of battery compartment 14. Referring now to FIGURES 2, 5, and 6, battery compartment 14 is shown having a first side wall 68, a second side wall 70, and a third side wall 72. A surface ledge or flange 74 may be formed along an edge of side walls 68, 70, and 72. Surface ledge or flange 74 may be formed with an access cavity 75 and with a sealing ledge 77. Access cavity 75 may facilitate opening of door 12. Sealing ledge 77 may have an enlarged portion 79. Extending from surface ledge or flange 74 near a first end 76 of battery compartment 14 is a biasing stop 78. Biasing stop 78 may include a bend 80. Extending from surface ledge or flange 74 proximate a second end 82 of battery compartment 14 is a clip tab 84.

Side walls 68, 70, and 72 along with biasing stop 78 and clip tab 84 form the interior compartment 16 substantially closed on five surfaces. Door 12 is used to close interior compartment 16, i.e., the sixth side. Contact clips 86 and 88 may be placed on clip tab 84 to provide an electrical contact with contact posts 62 and 66 of battery 64 when inserted into interior compartment 16.

As shown in FIGURE 1, appropriate wiring 90 may be attached to contact clips 86 and 88 to provide electrical power to a device (not shown). Contact clips 86 and 88 may be formed of a material that conducts electricity while providing resistance to deformation so as to bias the battery away from contact clips 86 and 88. In particular, as shown in FIGURE 2, a portion 92 of contact clip 88 will contact negative contact post 66 of battery 64 while also serving as a spring to push battery 64 away from contact clip 88.

An analogous portion (not explicitly shown) of contact clip 86 may also be formed to contact positive contact post 62 of battery 64 and also urge battery 64 away from contact clip 86. At the opposite end of battery 64 when inserted into interior compartment 16, is biasing stop 78. Biasing stop 78 is formed to provide a bias towards contact clips 86 and 88. The combined effect of contact clips 86, 88 and biasing stop 78 is to securely hold battery 64 in interior compartment 16. An angled portion 94 of biasing stop 78 may also help direct battery 64 into interior compartment 16. Bend 80, which is illustrated between angled portion 94 and a flat portion 96 of biasing stop 78, helps guide and bias battery 64 toward interior compartment 16.

As shown in FIGURE 5, first side wall 68 may have a tool cutout 98. Similarly, second side wall 70 may have a tool cutout 100. An interior portion of surface ledge or flange 74 proximate second end 82 may be formed with hinge edge 52 (FIGURE 5) suitable for mating with hinge lip 48. Also, sealing ledge 77 near hinge edge 52 is used to support a portion of cover 18, e.g., corners 13 (FIGURES 2 and 7) to help support door 12 when in an open position.

FIGURE 7 is a cross-sectional view of battery holding and contact apparatus 10 showing additional details of the operation of door 12. As shown, hinge lip 48 may contact and pivot about the top of hinge edge 52 so that door 12 does not slide into interior compartment 16 when door 12 is in an open position.

Door 12 may be formed as an integral piece through injection molding. Any number of materials may be used to form door 12, including for example, ABS plastic. Similarly, battery compartment 14 may be formed of a single integral piece through an injection molding process. In this regard, tool cutouts 98 and 100 provide tool access such that stops 102 and 104 may be formed on a portion of side walls 68 and 70, respectively.

Once formed, door 12 may be installed in battery compartment 14 by first placing hinge lip 48 against hinge edge 52 and then providing a force on the exterior of side walls 20 and 22 to deflect side walls 20 and 22 inwardly, allowing stops 40 and 42 to bypass stops 102 and 104.

In operation, once assembled, door 12 is allowed to pivot about hinge lip 48 and hinge edge 52. The extent of pivot or rotation of door 12 is limited at one extreme by contact of stops 40 and 42 with stops 102 and 104. At the other extreme, door 12 is placed in a completely closed position with a portion of cover 18 in contact with sealing ledge 77. To selectively hold door 12 in a closed position, just prior to being completely closed, enlarged portion 33 of elongated latching tab 32 comes into contact with stop 104. To temporarily lock door 12 in place, additional force is placed on the exterior of door 12 such that elongated latching tab 32 deflects towards notch 35, allowing enlarged portion 33 to bypass stop 104. Upon

bypassing stop 104, enlarged portion 33 and elongated latching tab 32 return to their normal position holding door 12 closed. The rounded or bulb portion of the enlarged portion 33 illustrated in FIGURE 3 holds door 12

5 secure.

When it is desired to open door 12, a person may place a device or a finger into access cavity 75 so as to catch a portion of the first end 44 of door 12 to apply force that causes the rounded enlarged portion 33 and elongated latching tab 32 to deflect bypass stop 104, allowing door 12 to open. Once opened, battery 64 may be oriented as shown in FIGURE 2 and slid into battery receiving cavity 25. If contact posts 62 and 66 of battery 64 are properly aligned, contact posts 62 and 66 will mate properly with cutouts 58 and 60 of post locators 56. The correct orientation of battery 64 is shown in FIGURE 2.

If battery 64 is not in the correct orientation, contact posts 62 and 66 will not bypass cutouts 58 and 60, and when a person attempts to close door 12, the fact that contact posts 62 and 66 have not mated with cutouts 58 and 60 causes a first portion 65 of battery 64 to interfere or contact sealing ledge 77 proximate first end 76 of battery compartment 14. Thus, the design of battery holding and contact apparatus 10 dictates proper orientation of battery 64 before door 12 may be closed. The embodiment shown in FIGURES 1 through 6 does not require snaps to be placed on this nine volt battery, but rather uses clip contacts 86 and 88.

Referring now to FIGURES 9 and 10, an alternative embodiment is shown. FIGURE 9 is prospective view of a door 212 used as a part of another embodiment of a battery holding and contact apparatus 200. FIGURE 10 is a cross-

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sectional view of door 212 with a battery compartment 214. Battery holding and contact apparatus 200 is shown having door 212 and battery compartment 214. Door 212 is formed in a manner analogous in most respects to door 12 of FIGURES 1 through 6, but a battery receiving cavity 225 is sized to accommodate AA batteries 264, shown in FIGURE 9. As with battery holding and contact apparatus 10, a plurality of walls, such as a side wall 222, form the battery receiving cavity 225. A post locator 256 has a first cutout 258 and a second cutout 260. In this instance, cutouts 258 and 260 are each sized the same to accommodate contact posts 262 of batteries 264. A hinge lip 248, a locking mechanism 236, and other battery holding and contact apparatus 200 are analogous to corresponding features of apparatus 10.

Referring now to FIGURE 10, a cross-section showing door 212 in cooperation with battery compartment 214 is shown. Battery compartment 214 is formed in an analogous manner to that of battery compartment 14 of FIGURES 1 through 6; however, one difference between battery compartments 14 and 214 is that biasing stop 78 is replaced by a biasing stop composed of a tab 278 with a contact spring 281. Contact spring 281 provides electrical contact to a negative contact posts 266 on battery 264 and also urges battery 264 towards a center portion of an interior compartment 216. Other features, such as hinge edge 252 and clip tab 284 with contact clip 288 are substantially the same as associated features of apparatus 10. It will be appreciated that with the embodiment of FIGURES 9 through 10, the positive contact posts 262 of the batteries 264 are both placed toward a first end 276 of compartment 214. Consequently, an electrical contact may be provided

between a first contact clip 288 and a second contact spring 281 to place batteries 264 in series.

5 Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions, and alterations can be made therein without departing from the spirit and scope of the invention as defined by the appended claims. For example, post locators 56 may be formed as an integral part of door 12 or battery compartment 14.

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WHAT IS CLAIMED IS:

1. A battery contact and holding apparatus comprising:

a door;

5 a hinging mechanism coupled to the door;

a battery compartment, the door pivotally coupled by the hinging mechanism to the battery compartment to selectively provide access to an interior of the battery compartment;

10 a plurality of contacts for electrically coupling to a battery in the battery compartment, the contacts coupled to the battery compartment;

15 a post locator associated with the battery compartment for aligning one or more posts of a battery with one or more of the plurality of contacts and for disallowing the door to close off the interior of the battery compartment if a battery is not properly placed.

20 2. The apparatus of Claim 1 wherein the door comprises a battery-holding door having a cover, a first side wall, a second side wall, and a third side wall, the cover and side walls coupled together to form a battery-receiving housing.

25 3. The apparatus of Claim 2 wherein the third side wall is formed with a notch therein operable to facilitate flexing of the first and second side walls for installing in the battery compartment.

4. The apparatus of Claim 1 wherein the hinging mechanism comprises:

a hinge lip formed on the door; and

5 a hinge edge formed on the battery compartment for receiving the hinge lip and allowing limited rotation of the hinge lip about the hinge edge.

5. The apparatus of Claim 1 wherein the post locator is attached to the door.

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6. The apparatus of Claim 1 wherein the post locator is attached to the battery compartment.

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7. The apparatus of Claim 1 further comprising a latch mechanism formed on the door.

8. The apparatus of Claim 7 wherein the latch mechanism comprises an elongated latching tab formed on the door.

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9. The apparatus of Claim 1 further comprising an access cavity formed in the battery compartment for facilitating opening of the door.

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10. A battery contact and holding apparatus comprising:

5 a door;

a battery compartment associated with the door, the battery compartment having an interior, the door for selectively providing access to the interior of the battery compartment;

10 a plurality of contacts for electrically coupling to a battery in the battery compartment; and

15 a post locator associated with the battery compartment for aligning one or more posts of a battery with one or more of the plurality of contacts and for disallowing the door to close off the interior of the battery compartment if a battery is not properly placed.

20 11. The apparatus of Claim 10 wherein the post locator is formed with first and second apertures or cutouts, the first aperture or cutout having a size and configuration such that the first aperture or cutout is operable to receive a negative contact of a nine volt battery, the second aperture or cutout having a size and configuration such that the second aperture or cutout is operable to receive a positive contact of a nine volt battery but is not operable to receive a negative contact 25 of a nine volt battery.

25 12. The apparatus of Claim 10 wherein the post locator comprises a ledge.

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13. The apparatus of Claim 10 wherein the post locator comprises a means for aligning one or more posts of

a battery with one or more of the plurality of contacts and for disallowing the door to close off the interior of the battery compartment if a battery is not properly placed.

5 14. The apparatus of Claim 10 wherein the post locator is formed with an aperture or cutout, the aperture or cutout having a size and configuration such that the aperture or cutout is operable to receive a first post of a battery, the first post having a first polarity, the aperture or cutout also having a size and configuration such that the aperture or cutout is not operable to receive a second post of the battery, the second post having a second polarity, the first polarity different from the second polarity.

10 15. The apparatus of Claim 14 wherein the post locator is formed with an aperture, the aperture having a size and configuration such that the aperture is operable to receive a positive post of a AA battery but not operable to receive a negative post of a AA battery.

15 16. The apparatus of Claim 14 wherein the post locator is formed with an aperture, the aperture having a size and configuration such that the aperture is operable to receive a positive post of a AAA battery but not operable to receive a negative post of a AAA battery.

COUNSEL FOR APPLICANT

17. A method of manufacturing a battery contact and holding apparatus, the method comprising the steps of:

5 forming a battery compartment having an interior and at least one post locator;

providing a plurality of contacts for electrically coupling a battery in the battery compartment;

forming a door associated with the battery compartment;

10 pivotally coupling the door to the battery compartment; and

15 forming the at least one post locator with a size and configuration operable to align at least one post of a battery with the plurality of contacts and to disallow the door to close off the interior of the battery compartment if a battery is not properly placed.

18. The method of Claim 17 wherein the step of forming a door associated with the battery compartment comprises the steps of:

20 forming a cover;

forming a first side wall, a second side wall, and a third side wall; and

coupling the cover and the first, second, and third side walls together to form a battery-receiving housing.

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19. The method of Claim 18 and further comprising the step of forming a notch in the third side wall to facilitate flexing of the first and second side walls for installing in the battery compartment.

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20. The method of Claim 17 wherein:

the step of forming a door associated with the battery compartment comprises the step of forming a door having a cover; and

the step of pivotally coupling the door to the battery compartment comprises pivotally coupling the door to the battery compartment such that the cover of the door does not protrude into the interior of the battery compartment when the door is in an open position.

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21. A battery contact and holding apparatus comprising:

a battery holding means for holding a battery;

5 a selective access means for selectively providing access to an interior of the battery holding means, the selective access means having a closed position;

a contact means for electrically coupling to a battery in the battery holding means, the contact means coupled to the battery holding means; and

10 a means for aligning one or more posts of a battery with the contact means and for disallowing closing of the selective access means if a battery is not properly aligned.

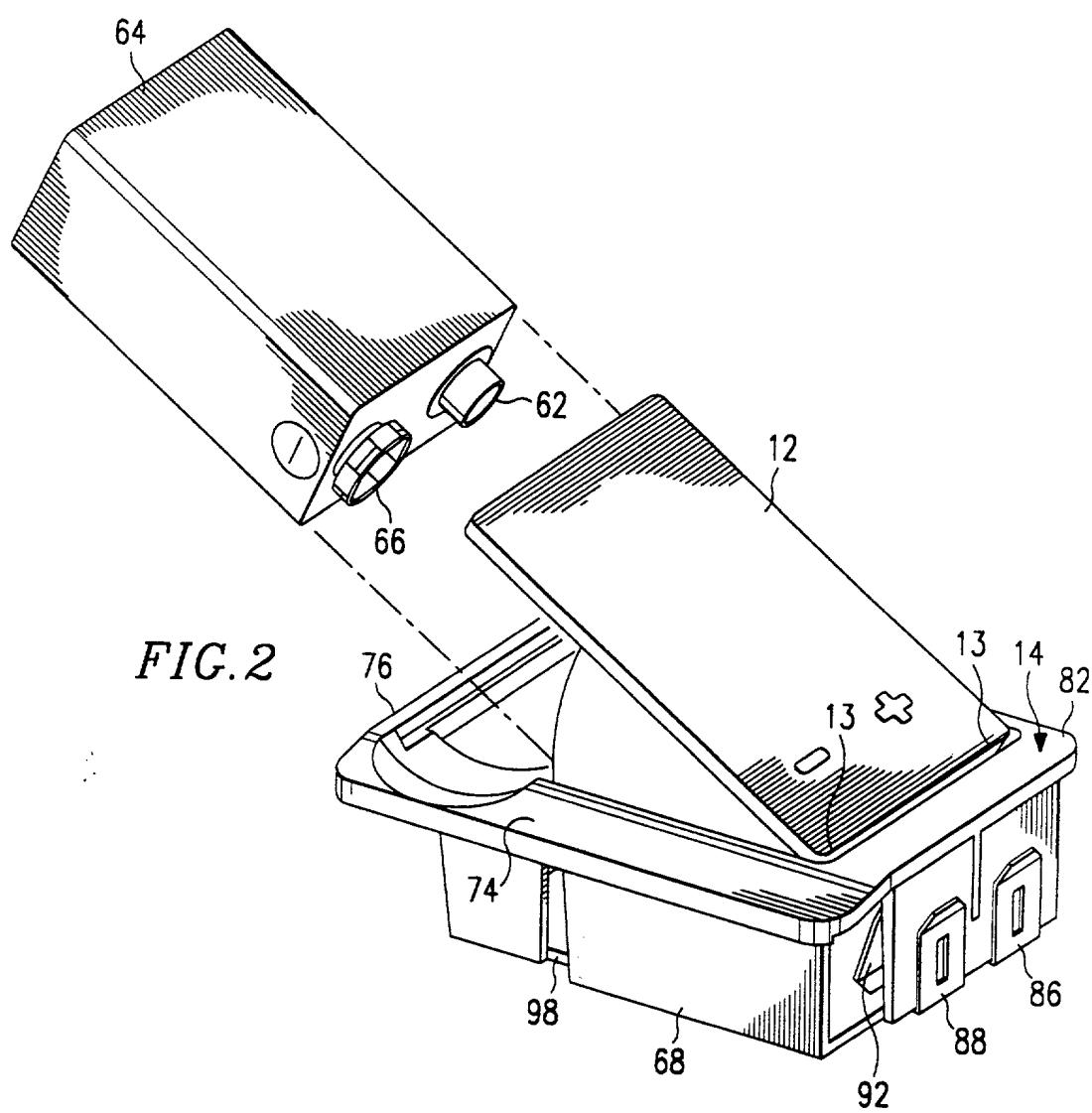
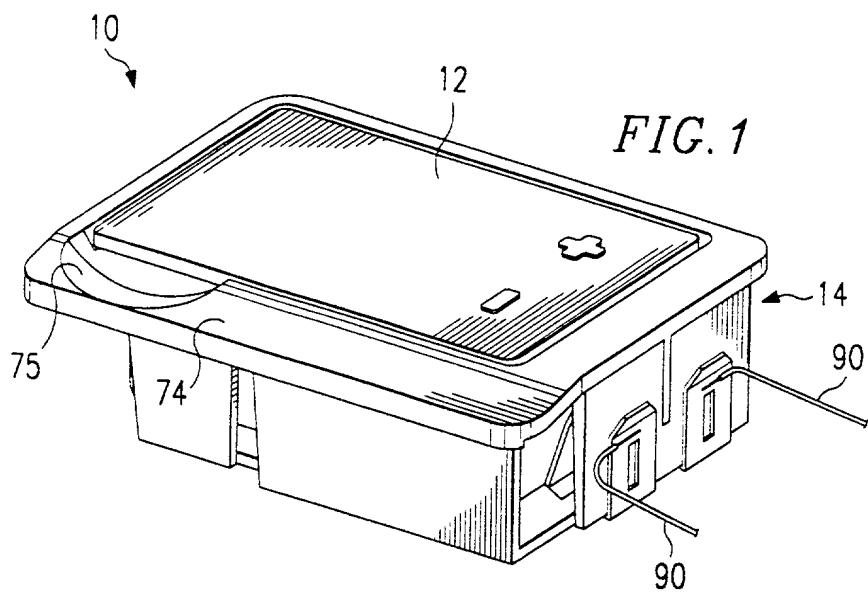
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BATTERY COMPARTMENT AND METHOD

ABSTRACT OF THE DISCLOSURE

A battery contact and holding apparatus (10, 200) includes a door (12, 212) and a battery compartment 14, 214) associated with the door. The door selectively provides access to the interior (16, 216) of the battery compartment. The apparatus also includes a plurality of contacts (86, 88, 286, 288) for electrically coupling to a battery (64, 264) in the battery compartment and a post locator (56, 256) associated with the battery compartment for aligning one or more posts (62, 66, 262, 266) of a battery with one or more of the plurality of contacts and for disallowing the door to close off the interior of the battery compartment if a battery is not properly placed.

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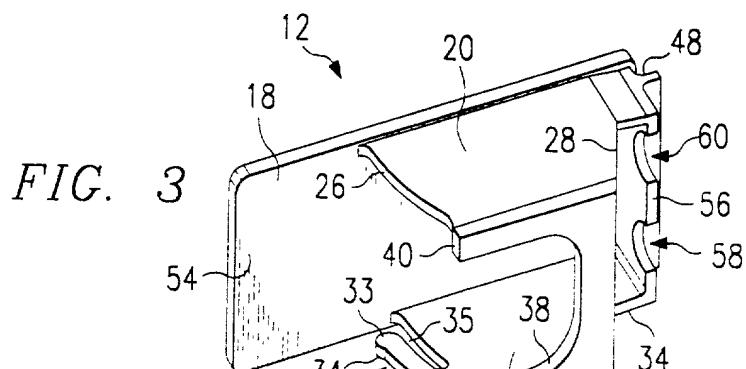


FIG. 3

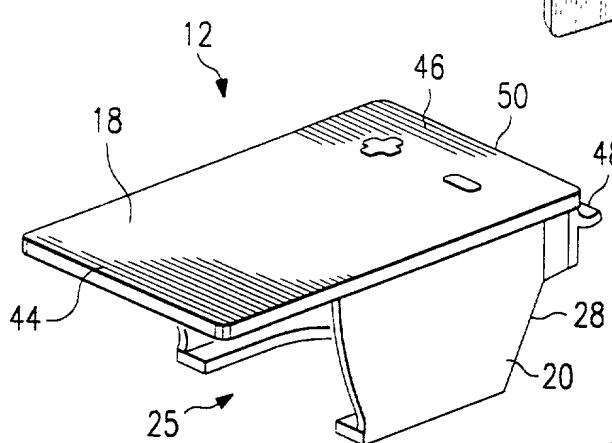


FIG. 4

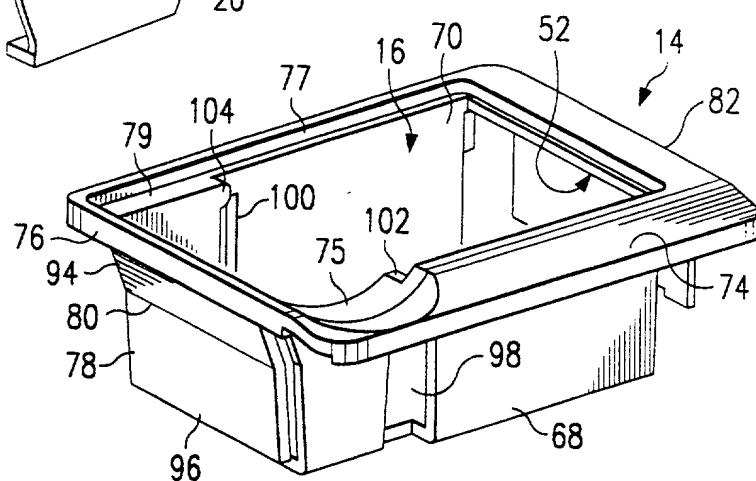


FIG. 5

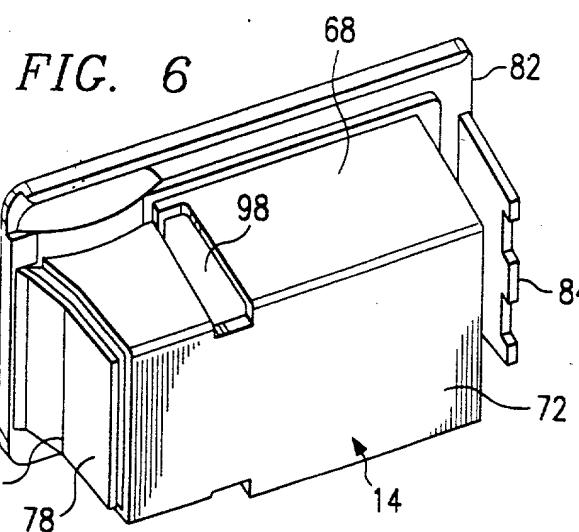


FIG. 6

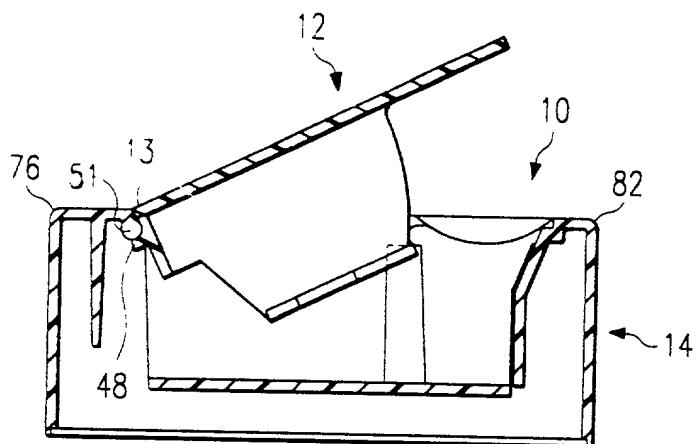


FIG. 7

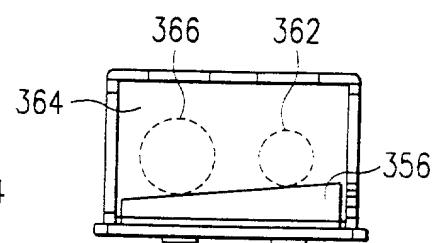


FIG. 8

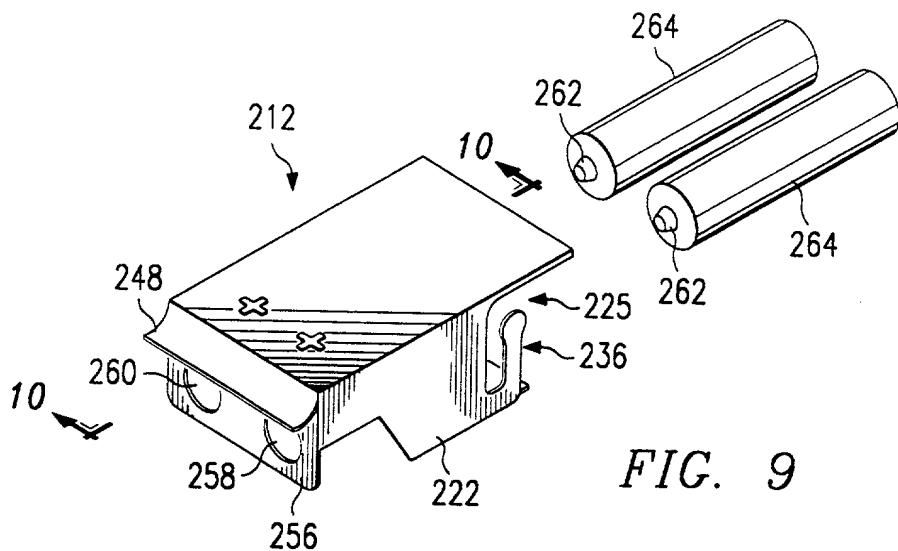


FIG. 9

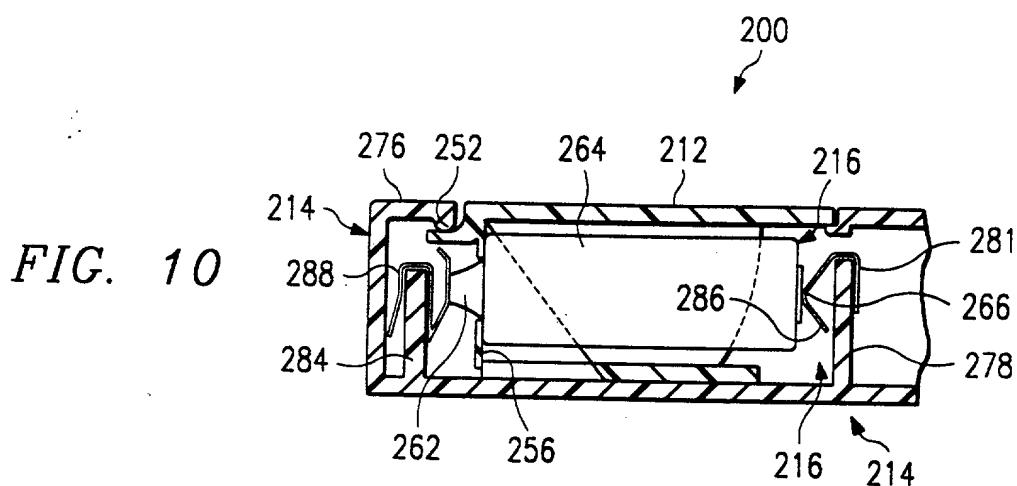


FIG. 10

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name, that I believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention or design entitled **BATTERY COMPARTMENT AND METHOD**, the specification of which is attached hereto;

That I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and

That I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Number</u>	<u>Country</u>	<u>Date</u>	<u>Priority Claimed</u>	<u>(Yes) (No)</u>
		<u>Filed</u>		

None

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which

became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

<u>Application</u>		
<u>Serial Number</u>	<u>Date Filed</u>	<u>Status</u>
None		

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application listed below:

<u>Application</u>		
<u>Serial Number</u>	<u>Date Filed</u>	<u>Status</u>
60/040,291	February 12, 1997	Pending

I hereby appoint:

Jerry W. Mills	Reg. No. 23,005
Robert M. Chiaviello, Jr.	Reg. No. 32,461
Ann C. Livingston	Reg. No. 32,479
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Charles S. Fish	Reg. No. 35,870
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Wei Wei Jeang	Reg. No. 33,305
Kevin J. Meek	Reg. No. 33,738
Anthony E. Peterman	Reg. No. 38,270
Barton E. Showalter	Reg. No. 38,302
David G. Wille	Reg. No. 38,363
Robert J. Ward	Reg. No. 38,652
Christopher J. Rourk	Reg. No. 39,348
Philip W. Woo	Reg. No. 39,880
Bradley P. Williams	Reg. No. 40,227
Terry J. Stalford	Reg. No. 39,522
Christopher W. Kennerly	Reg. No. P40,675
Daniel P. Stewart	Reg. No. P41,332
Roger J. Fulghum	Reg. No. 39,678
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James G. Gatto	Reg. No. 32,694
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James Remenick	Reg. No. 36,902

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all of the firm of Baker & Botts, L.L.P., my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and to file and prosecute any international patent applications filed thereon before any international authorities.

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I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of the inventor

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Inventor's signature

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